

Day in the Life of the Hudson River 10/13/17 Data

(sampling the day after DITL)

RIVER MILE 115

(Saltfront somewhere close to RM 65)

Cohotate Preserve, Athens, Greene Co.

Andrew Randazzo, Cornell Cooperative Extension of Greene County

Tony Loughran, Cossackie Athens High School, Env. Sci. – 19 students, 12th

(adults – 6 adults)

N 42.24410 – W 73.8362

Location: Cohotate preserve – Ice house site –

Area: The ice house is a flat, grassy area on the river with several cotton wood trees. It is situated at the bottom of a forested hill. Large waterfront vegetated. The artificial shoreline of the bulkhead dominates the eastern shore. Shoreline is characterized by tidal mudflats. Area is used recreationally for picnicking, hiking and fishing. Ice house is approximately ½ miles walk from the parking area.

Surrounding Land Use: Forested 85%, Beach 10%; Urban/residential 5%

Sampling Site: Beach area, Shoreline includes tidal mud flats in the southeast, with a rocky shore further south. To the north of the tidal mud flat there is an old bulkhead, with another tidal flat to the north of the bulkhead, rip rap in sections.

The banks have been altered at the bulkhead (entire ice house area is likely dredge spoil), wood and debris are collected in the southern mudflat, there is lots of vegetation and no pipes entering the water. Brick pieces on shoreline

Water Depth: NR

River Bottom: Muddy, rocky, weedy

Plants in area: NR

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:10 AM	11°C	52 °F	
Wind Speed	0			
Cloud Cover	10:10 AM	Mostly cloudy		
Weather today	No rain today			
Weather recently	Overcast and wet last 2 days, dry for a long time before that			
<i>Water Temperature</i>	9:44 AM 10:57 AM	17.8°C /64 °F 17.4°C / 64°F	<i>Water</i>	calm
<i>Turbidity – Pasco turbidimeter</i>	10:50 AM	0 NTU X 3 readings	Very clear	
<i>Chemical</i>				
DO	9:50 AM	7.98 ppm	17.8°C	81%
Pasco Probe	10:58 AM	8.2 ppm	17.4	82 %
pH – Pasco Probe	9:47 AM 9:48 AM 11:01 AM	6.9 7.25 7.26		

Conductivity Ms probe	33 Ms		Also measured salinity with probe	0 ppt salinity
<i>Fish Catch</i> <i>40 ft. X 30 ft.</i> <i>9:30-11:30 AM</i>	<i>Total #</i>	<i>Species –</i>	<i>Size</i>	<i>Totals</i>
FISH – 6 seines	7 3 6 5 3 4	White Perch Striped Bass Pumpkinseed Tessellated Darter Bluegill Alewife Herring	15 cm 10 cm 14 cm 9 cm 9.5 cm 10 cm	<i>Diversity – 6</i> <i>Total Catch – 28</i>
Macros	2	Blue Crab		<i>Diversity – 1</i> <i>Total Catch – 2</i>
<i>Tide</i>	10:00 AM 10:30 AM 11:15 AM	19.5 cm 21 cm 16 cm	Rising Rising Falling	
<i>Currents</i>	10:30 AM 11:15 AM	South South	Flood Flood	
<i>Shipping Commercial</i>	10:00 AM 10:20 AM	South South	Light Light	
<i>Shipping Recreational</i>	10:45 AM 11:15 AM	South South		